

LETTER OF TRANSMITTAL

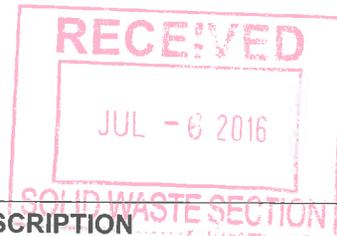
Everett's C&G, Inc.

2402 Fred Everett Rd
Kinston, NC 28504
(252) 522-5260

Fac/Perm/Co ID #	Date	Doc ID#
P1303	07/06/16	DIN 26433

DATE	07/01/16	JOB NO.
ATTENTION	Ming Chao, PE	
PHONE #	(919) 707-8251	
RE:	Everett's LCID Pit	
	New LCID Permit (SUBMITTAL #2)	
	Institute Township	
	Lenoir County, NC	

TO: Solid Waste Section
Division of Waste Management-NCDEQ
1646 Mail Service Center
Raleigh, NC 27699-1646
(919) 707-8251



COPIES	DATE	NO.	DESCRIPTION
2			LCID Maps
1			Operations Plan LCID
1			Revised Permit Application
1			Lenoir County Zoning Compliance Letter
1			NCDEQ DEMLR Stormwater Emails
1			Fire Dept. Letter
1			DB 1644, Pg. 203
1			HydroCAD Stormwater Modeling
1			NLWC Well Information

REMARKS: An Erosion Control Permit will be submitted under separate cover.
Let us know if you have questions or need additional information. Thank you.

COPY TO: File

SIGNED: J. Branch Smith, PE

June 24, 2016

Mr. Ming-Tai Chao, P.E.
NCDEQ – Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

**Re: Permit Application Comment Response #1
Everett’s Land Clearing and Inert Debris (LCID) Pit
Lenoir County, North Carolina
Location No. P1303, Document ID No. (DIN) 25941**

Dear Mr. Chao:

On behalf of Lynn Everett and Everett’s Clearing and Grading, please find these responses to your comments dated May 13, 2016 provided in **bold**.

Landfill Siting Criteria

1. Please provide the approved applications and/or approval documents that demonstrate the proposed area is suitable for constructing and operating a LCID Landfill and meets the requirements stated in the Rules 15A NCAC 13B .0563(2), (3), (4), (5), (6) & (8). According to the “LCID Narrative” the facility has or had a mining permit issued by the NC Division of Energy, Mineral and Land Resources. If the permitted mining area owned by the Everett’s Clearing and Grading, Inc. (ECANDG) including the proposed landfill property, and the above-referenced siting requirements for a LCIDLF were included in the mining application, please provide the SWS copies of the previously approved mining applications including drawings, approval letters, and/or permits.

*(Waiting
mining
permit*

Response: The State Mining Permit (51-17) was released and closed and the appropriate document will be provided upon receipt from NCDEMLR as well as the original mine permit. All the other supporting documents are not in our possession, but can be reviewed at the NCDEMLR Central office in the Archdale Building downtown Raleigh.

(Will this be the applicant's duty to make a copy of the file & submit the copy to EWSM

2. The remarks in March 28, 2016 transmittal described that the mining facility has a valid and current Erosion and Sediment Control Plan approved by the NC Land Quality Section (NC LQS). Please provide a copy of the approved plan and approval letter.

*(Waiting
erosion
control
permit*

Response: The erosion control permit will be submitted for a re-disturbance of the pit to the Washington Regional Office per our conversations with Richard Peed.

3. Please conduct a subsurface investigation and conclude:
- i. If the standing water in the mining pit is interconnecting to the nearby water body – Falling Creek.
 - ii. A water well owned by North Lenoir Water Corporation is located approximately 150 feet from the proposed waste boundary of the LCIDLF-Phases 2 area. Please determine if the pumping operations from this water well will impact the landfill operation such as subsidence and if the waste operations at the proposed landfill will impact the water quality in this well.

Boring log → **Response: A subsurface investigation is not warranted given the groundwater at Elevation 77-ft is above the 100-yr BFE of 74-ft (NAVD 88); therefore there is not a significant hydrogeological analysis warranted based on the data provided. The NLWC water supply well's information is attached herein, but the well is tapped into the confined aquifer at Elevation -109-ft (NAVD 88) therefore no impacts to the water supply well from the LCID will occur.** *base flood elev.* *ck flood map* ✓

Map

4. (Drawing No. LCID-1) According to the info obtained from the Lenoir County Register of Deed, the acreage of the landfill property (Deed Book 987, Page, and Parcel # 4596) is 17.51 acres which is different from that (17.98 acres) on the Drawing No. LCID-1 and the one (13 acres) in the second paragraph of Section I. Site Description of LCID Narrative. Please clarify and provide a consistent data in the permit application.

OK **Response: The deed is the latest recorded plat of the subject property. Based on Matrix East surveying and title search, the tract shown is the current boundary owned by Lynn Everett and the acreage is approx. 17.94 acres. 17.51 acres is what is listed on the County GIS system, not Register of Deeds. 9.40 acres listed in the Narrative is the acreage of the LCID.**

5. (Drawing No. LCID-2) please add the rule-required info to the drawing:

- i. Delineate the 100-foot buffer and set back lines according to Rule 15A NCAC 13B .0564(9)(b) [Rule 15A NCAC 13B .0565(3)(e)].
- ii. Add all best management practices BMP(s) to the layout drawing in addition to the details on Drawing No. LCID-3.

OK ✓ **Response: Plans have been updated.**

6. Please provide a site plan (with topographical contours) drawing to show the proposed final cover system (also referring Comment No. 13).

Response: Noted.

Fig LCID-3 & LCID-2

Operations Plan LCID

7. (Section 1 Waste Disposal Plan, items (c) & (d)) The land clearing and inert debris landfill (LCID Landfill), as defined in the Rule 15A NCAC 13B .0101(22), means a facility for the land disposal of land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash. The descriptions in the items (c) & (d) of this Section are not considered as the acceptable waste stream for a LCID Landfill but the waste stream for a construction and demolition landfill. Please remove the items (c) & (d) from the Operations Plan [Rule 15A NCAC 13B .0566(2)].
Response: Operations Plan has been updated to reflect the correct definition.
8. (Section 1 Waste Disposal Plan, items (j)) Please provide additional information stated below:
- i. Will this landfill facility open for the general public use for disposal of permitted waste streams? Please clarify. **Response: No the facility will not be open for public use. OP clarified.**
 - ii. Will the landfill operator on-site conduct waste screening (in consistent with the item (m) of this Section) while the landfill is active for waste disposal activities? Please clarify. **Response: The operators and staff of working for Mr. Everett will be trained and knowledgeable in the types of wastes allowed by the LCID. Mr. Everett or any other responsible contacts listed in now "Section 2" of the OP would direct regulated LCID waste dumping to the facility.**
9. (Section 1 Waste Disposal Plan, items (m)) Please address the following concerns:
- i. Please describe the size (square footage) and physical structure of the berm including the base/pad to be used for collecting & temporarily storing unpermitted wastes. The location (s) of the storage unit(s) must be noted and shown on the drawing. **Response: No temporary storage of unpermitted wastes will be stored on site. See revised OP.**
 - ii. Please provide the information (such as facility name, Solid Waste Permit Number, address, phone number, etc.) of the waste management facilities that will take the unacceptable wastes or recyclables for treatment, recycle, or final disposal. **Response: Noted in new "(n)".**
10. (Section 1 Waste Disposal Plan, items (n)) Please add the following information to the item(n):
- i. The Operations Plan shall implement that open burning of solid waste is prohibited at the landfill property [Rule 15A NCAC 13B .0566(12)].
Response: Noted.
 - ii. The local fire department or fire marshal must be informed that landfill operations and agree the fire-fighting assistance in a fire occurrence. The written

agreement or a letter issued by the local fire department/fire marshal must be provided as the portion of the permit application document.

Response: Letter provided herein.

- iii. All the on-site machinery must be equipped with functional fire extinguishers.

Response: Noted.

- iv. Should a fire occur at the landfill, the fire reporting procedures in the Operations Plan must be followed. The SWS recommends the following procedures added to the Operations Plan.

Fires and explosions that occur at the landfill require verbal notice to the DWM within 24 hours and written notification within 15 days. Written notification must include the suspected cause of fire or explosion, the response taken to manage the incident, and the action(s) to be taken to prevent the future occurrence of fire or explosion.

The FIRE OCCURRENCE NOTIFICATION FORM can be downloaded from the DWM web site (link is provided below) and appended to the Operations Plan <http://ncdenr.s3.amazonaws.com/s3fs-public/Waste%20Management/DWM/SW/Forms/FireOccurrenceReport.pdf>

Response: Operations Plan has been revised and Form attached to OP.

11. (Section 1 Waste Disposal Plan, items (o)) Please provide the physical (911) address of the main office of Everett's Clearing and Grading, Inc. to assist the SWS representative (s) in conducting routine audit/inspection activities.

Response: Noted.

12. (Section 1 Waste Disposal Plan, items (p)) Please provide additional information regarding soil borrow and soil cover requirements.

- i. According to the Drawing Nos. LCID-1 through LCID-3, the proposed landfill base, approximately 85 feet above mean sea level (amsl), will be constructed by backfilling earthen material, and there is no on-site soil borrow described or located in the permit application documents. Please provide the estimate volume of soil to be used for (a) constructing proposed landfill base (b) placing periodical/monthly soil cover throughout the landfill operations and (c) constructing the final cover system of the entire landfill (including proposed Phase 1 through Phase 3) [Rule 15A NCAC 13B .0564(7)]. The plan must also identify the sources of the required soil [Rule 15A NCAC 13B .0565(3)(k)].

Response: The backfill and grading material for Phase I construction will come from onsite soil and regrading slopes as necessary around the old mine pit. Cover material will come from the same source, and cannot be quantified as it depends on the use of the LCID. This facility is not going to be heavily used

since it's not open to the public and based on the quarterly estimates of waste. There is necessary backfill and cover soil onsite.

- ii. Pursuant to Rule 15A NCAC 13B .0566(4), adequate soil cover shall be applied over to cove the working face monthly or the active area reaches one (1) acre in size, whichever occurs first. Please add this requirement to the Operations Plan.
Response: Noted; added to the OP and plans.

- 13. (Section 1 Waste Disposal Plan, items (q)) Please specifically state that the landfill closure, at a minimum, shall be according to Rule 15A NCAC 13B .0566(5).

Response: Noted.

- 14. (Section 2 Erosion and Sedimentation Control) This Section must describe the practices or operation procedures to meet and satisfy the minimum requirements in the following rules:

- i. This Section must describe how to implement the erosion control and revegetation requirements according to Rules 15A NCAC 13B .0566(6) & (7), specifications stated in Drawing No. LCID-3, and approved Erosion and Sediment Control Plan.

Response: Noted.

- ii. The last paragraph of the Section I. Site Description describes the surface drainage feature that "drainage runs into the pit and not offsite." Pursuant to Rule 15A NCAC 13B .0566(10) & (11), the physical structures or devices and operation practices described in the Operations Plan must ensure that solid waste shall not be disposed in water. Please specify the best management practices (BMPs) to prevent the disposed solid wastes in the standing water resulting in run-in/surface water flow.

Response: The plans have been revised to show the conveyance of runoff from the LCID slopes and proposed drainage during the initial Phase I construction that will block off the standing water. Then, the remaining surface water can be pumped into the stormwater holding area. The groundwater elevation has been approximated based on more field investigation, and rainfall-runoff events (10yr and 100yr) have been calculated to determine the WSEL stages in this area. Offsite drainage has been blocked off by use of earth berms around the property. Also, erosion control measures have been shown on the plans.

- iii. According to the Drawing Nos. LCID-2 & LCID-3, the landfill will be developed by three phases. It is likely that ECANDG will construct and operate one phase at a time; so the remaining phases/open mining pits expect accumulate precipitation and run-in/surface flow. If this is the expected situation, please provide engineering device and construction practice to prevent water inside open mining pits and stormwater detention area seeping into the active landfill phase/cell.

Response: Since the phasing has been revised from the original plans a stormwater holding area has been designated and a new plan of construction has been proposed. There will be no migration of stormwater from the holding area into the proposed LCID fill slopes once the stormwater is pumped down and re-drained across the site. The storm elevations have been calculated and noted and it is evident water will not significantly rise and flood any of the LCID waste fill. A 'dam' is not being constructed in the sense water will be held behind the haul roads as depicted.

- iv. According to the Drawing Nos. LCID-2 & LCID-3, the proposed final cover is flat without sloped surface. Should the final cap be designed with positive grading to facilitate surface drain toward the proposed stormwater area? If not, please provide the design, measure, or practice in the Operations Plan (including drawings and typical details) to show how to prevent water from ponding/standing on the top of the final cover system. (Please be advised that all landfills will be subject to waste settlement.)

Response: Plans reflect the caps.

- v. According to Rule 15A NCAC 13B .0101(24) any liquid in contact with the disposed solid wastes is defined as a leachate. Please describe the leach management and disposal approaches, or stormwater separation practices incorporating into the phased waste disposal plan accordance with Rule 15A NCAC 13B .0566(14).

Response: Infiltration swales are shown to be installed around the LCID fill slopes. See revised plans.

15. The Operations Plan must describe the practices or operation procedures to meet and satisfy the minimum requirement in the Rule 15A NCAC 13B .0566(3).
Response: Noted.
16. (Section 3 Stormwater Management Plan) This Section proclaims that "there is no State-permitted stormwater management permit necessary for this site." Please provide a letter or written document issued by the NC Division of Water Resources to demonstrate the statement is true. **Response: Emails provided herein.**
17. Permanent markers that accurately identify the edge of the approved waste disposal boundary must be installed and properly maintained. Please add this requirement to the Operations Plan. **Response: Noted.**
18. The Operations Plan must describe the projected use of the land after the landfill is closed [Rule 15A NCAC 13B .0565(4)(b)]. **Response: There is no projected use of the property at this time.**

- 19. The Operations Plan must provide description of systematic usage/phased development & operation of each proposed disposal area, operation, orderly development and closure of the landfill [Rule 15A NCAC 13B .0565(4)(c)]. **Response: Noted.**
- 20. Please provide the quantity of waste (gross capacity) will be disposed at each of three landfill phases. The data will be incorporated into the solid waste management permit for this landfill. A table to summary the info for each landfill phase will be acceptable:

Landfill Area	Waste Footprint (acre) ^a	Gross Capacity (cubic yard) ^b
1	0.99	5,900
2	4.60	75,871
Total	5.59	81,771

Notes:

- a. Please refer the Comment Nos. 19, 21, & 24 for delineation of the waste footprint.
- b. The gross capacity is defined as the volume of the landfill calculated from the elevation of the initial waste placement (top surface of the landfill base approximately 85 feet amsl) through the top of the final cover, including any periodic cover [Rule 15A NCAC 13B .0565(4)(d)].

Response: Noted. See revised plans.

Site Narrative with Supporting Documents

21. (Section 1 Site Description) According to the info obtained from the Lenoir County Register of Deed, the acreage of the landfill property (Deed Book 987, Page, and Parcel # 4596) is 17.51 acres, not 13 acres stated in this Section, nor 17.98 acres noted in Drawing No. LCID-1. Please clarify. Additionally, according to info present in Drawing No. LCID-2, the total waste boundary of the proposed landfill is approximately 9.6 acres (Phase 1 is 3.4 acres, Phase 2 is 1.3 acres, & Phase 3 is 4.9 acres). Please add this info to this Section.

Response: Noted.

22. In addition to the flood map included in the permit application, please provide conclusion if the landfill is located in the 100-year floodplain [Rule 15A NCAC 13B .0564(1)].

Response: The property is not located in FEMA Special Flood Hazard Areas as stated on the map.

23. Please provide the copy of the property deed – Deed Book 987, Page 0001. The deed info Deed Book 987, Page 0002 in the permit application is likely irrelevant to the project site. **Response: The property is depicted as part of this deed and MB 19, Pg. 35. A more recent transaction of property is included herein as DB 1644, Pg. 203 which refers to Lynn as the heir to the original property deed DB 987, Pg. 1.**

24. According to Drawing Nos. LCID-2 & LCID-3, the proposed landfill disposal area/waste footprint – Phases 1, 2 & 3 don't not meet the lateral buffer requirement - 100 feet from the disposal area to property lines and commercial buildings [Rule 15A NCAC 13B .0564(9)(b)]. Therefore, the permit application shall provide the requested revision to the existing document or drawings and additional information:
- i. Delineate and identify the waste boundary on the drawings according to the lateral buffer requirements stated in Rules 15A NCAC 13B .0564(9)(b) & .0565(3)(e) & (h).
 - ii. Use the new identify the waste boundary please redefine waste footprint (in acre) for each phase of the landfill – Phases 1, 2, & 3.
 - iii. The proposed side slope for the landfill phases are greater than 3 (horizontal) to 1 (vertical) [Rule 15A NCAC 13B .0565(3)(j)]. Please revise the side slope to meet the rule requirement. Or provide geotechnical design and slope stability analysis to demonstrate that the proposed side slopes are stable during the active life of the landfill.
 - iv. Provide two cross-sections, for each of the three proposed phases [Rule 15A NCAC 13B .0565(3)(o)].
 - v. The proposed fill elevation of Phase 1 area shown on Drawing No. LCID-3 is inconsistent with that on Drawing No. LCID-2. Please clarify and make necessary correction.

Response: Noted. See revised plans.

25. Please address the following concerns of standing water in the proposed landfill unit/former mining area:
- i. As described in the SHWT Report Evaluation, standing water was in the proposed landfill unit/former mining area. What is estimated amount of water to be removed at each landfill phase?
 - ii. Please provide the dewatering plan. If the water will be pumped to the nearby waterbody, the applicable discharge permit must be provided in the permit application. If the water is planning to drain to the proposed stormwater detention area/pond as shown Drawing No. LCID-2, please describe the dewatering processes, the capacity of the stormwater area and BMPs which shall be approved by NC LQS.
 - iii. Please describe construction sequences (such as removing of slough material, spreading and compacting suitable earthen material by layers, final grading for drain), BMPs for dewatering & pumping operation, and applicable specifications to properly construct/backfill the proposed landfill base for each of the three phases.

Response: Noted. See revised plans, LCID sequence of construction, and stormwater calculations for the holding area.

Lenoir County Zoning Compliance Letter

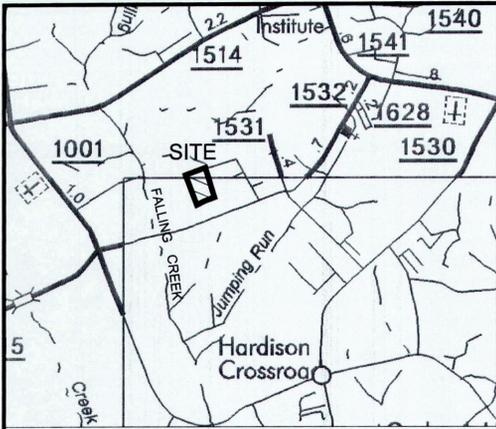
26. The attached zoning compliance letter is directly relating the mining permit, not applicable to construction and operation of a landfill. Please provide a copy of zoning letter issued by Lenoir County to demonstrate that the proposed landfill facility meets all requirements of any applicable zoning ordinance. **Response: Included herein.** ✓

Sincerely,



J. Branch Smith, PE

Engineer Consultant to Everett's Clearing and Grading, Inc.



VICINITY MAP
NTS

PROPERTY DATA: NC PIN #: 3577-99-4506; LENOIR CO. RECORD 4596
 ZONING: RURAL
 TOTAL ACREAGE: 17.94 ± BY TITLE SEARCH BY MATRIX EAST.
 DEED REFERENCE: DB 987, PG 1; MP 19-15
 PROPERTY OWNER & OPERATOR:
 MR. HENRY LEON EVERETT, JR. (LYNN EVERETT)
 EVERETT'S CLEARING AND GRADING, INC.
 2402 FRED EVERETT RD., PO BOX 6025, KINSTON, NC 28504
 (252) 522-5260

- BOUNDARY INFORMATION WAS TAKEN FROM MATRIX EAST, PLLC SURVEYING AND MAPPING.
- TOPOGRAPHIC INFORMATION TAKEN FROM MATRIX EAST FIELD SURVEY.
- THIS TRACT IS NOT SUBJECT SPECIAL FLOOD HAZARD AREAS AS SHOWN ON NFIP MAP PANEL 3720357800J AND 3720357700J EFFECTIVE DATE 4/16/13. FALLING CREEK FLOODPLAIN IS APPROXIMATELY 460-FT SOUTH OF THE TRACT AT APPROX. BFE=74.0 (NAVD 88).
- WATER SURFACE ELEVATIONS (WSEL) MODELED INCLUDE A BASE FLOW FACTOR CONSIDERING PERIODIC 1,000 GPM PUMP OPERATION.
- THE LANDFILL AREA IS LIMITED TO 9.40 ACRES PER THE 100' SETBACKS.
- REFERENCE THE LCID SEQUENCE OF CONSTRUCTION ON SHEET LCID-3.



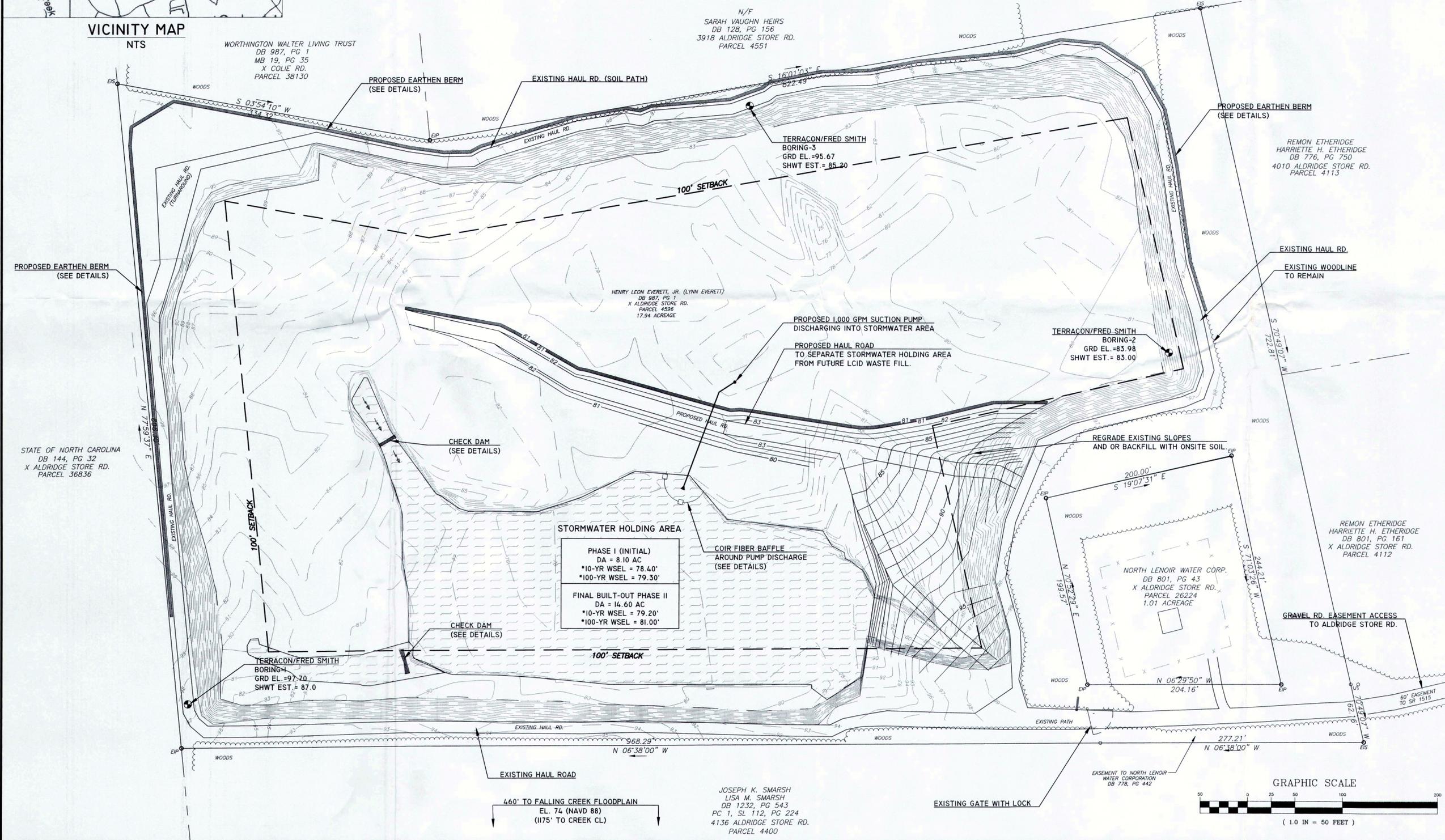
REFERENCE DRAWINGS

EVERETT'S LAND CLEARING AND INERT DEBRIS PIT

INSTITUTE TOWNSHIP
LENOIR COUNTY NC

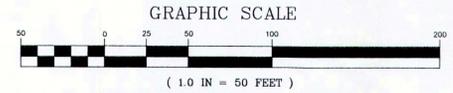
EXISTING CONDITIONS & PHASE I CONSTRUCTION

EVERETT'S CLEARING AND GRADING, INC.
 2402 FRED EVERETT ROAD
 KINSTON, NC 28504
 (252) 522-5260



PHASE I (INITIAL)
 DA = 8.10 AC
 *10-YR WSEL = 78.40'
 *100-YR WSEL = 79.30'

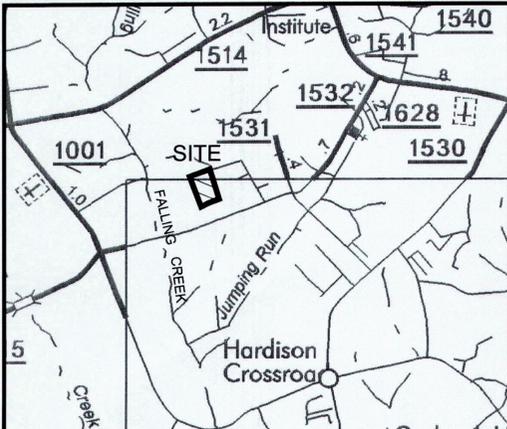
FINAL BUILT-OUT PHASE II
 DA = 14.60 AC
 *10-YR WSEL = 79.20'
 *100-YR WSEL = 81.00'



REV. NO.	DATE	REVISIONS	BY
1	6.24.16	REVISIONS PER DSW REVIEW	JBS

DRAWN BY	DATE STARTED	SHEET No.
JBS	MAR. 2016	1 OF 3
CHECKED		DRAWING NO.
JBS		
APPROVED		
JBS/LHE		
PROJECT NO.		
EVERETT'S LCID		

LCID-1

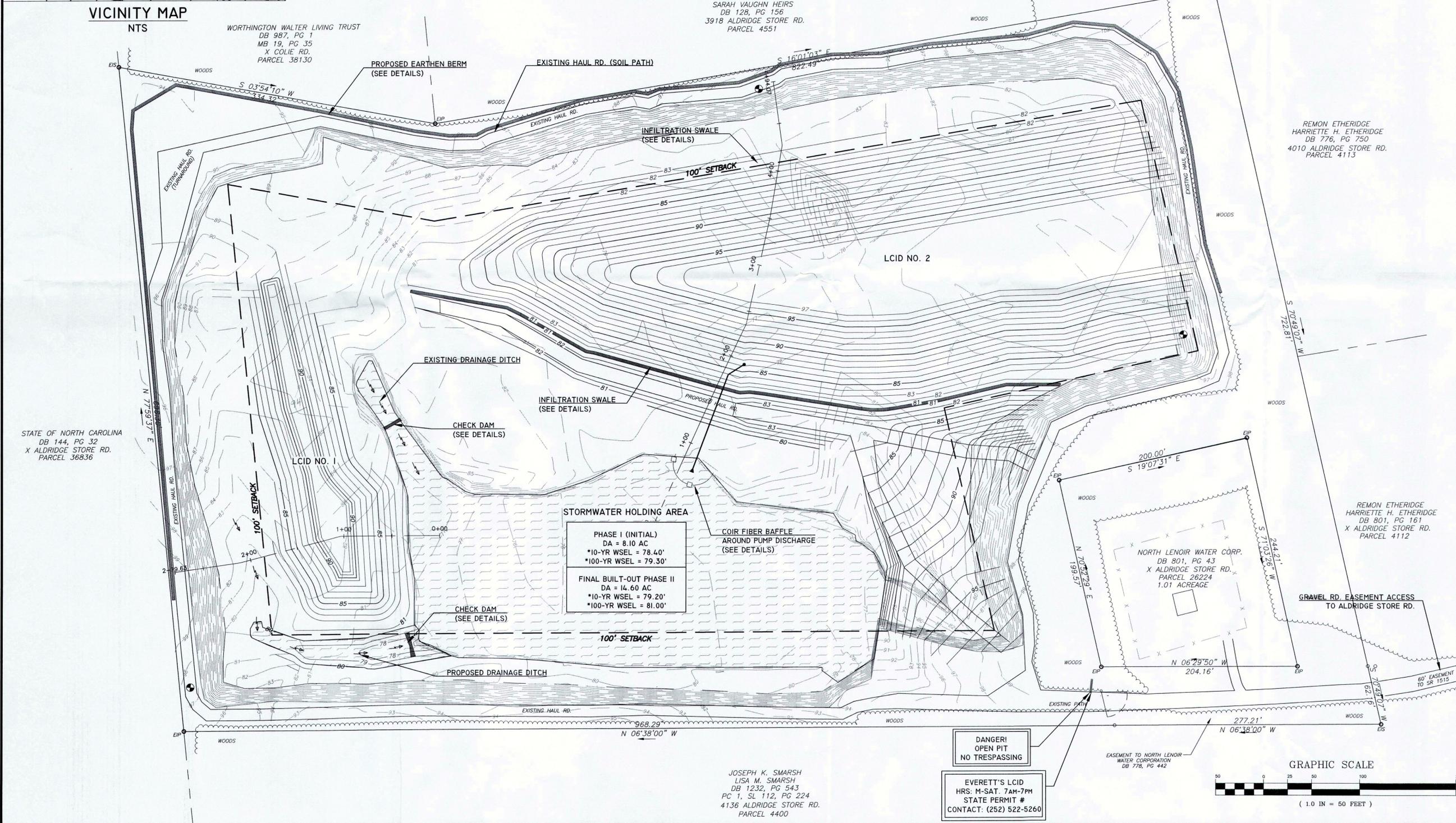


PROPERTY DATA: NC PIN #: 3577-99-4506; LENOIR CO. RECORD 4596
 ZONING: RURAL
 TOTAL ACREAGE: 17.94 ± BY TITLE SEARCH BY MATRIX EAST.
 DEED REFERENCE: DB 987, PG 1; MP 19-15
 PROPERTY OWNER & OPERATOR:
 MR. HENRY LEON EVERETT, JR. (LYNN EVERETT)
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- OPEN PIT SCREENING PROVIDED FROM EXISTING CROP FIELDS, LIVESTOCK FIELDS, AND ACCESS ROAD GATE.
- ALL RUNOFF FROM LCID AREA DRAINS OR WILL DRAIN INTO STORMWATER AREAS AS INDICATED.
- LANDFILL FILLING, OPERATION, AND RESTORATION ACTIVITIES WILL NOT INTRODUCE ANY FILL, STOCKPILES, WASTEPILES, OR NON-MOBILE EXCAVATING OR PROCESSING EQUIPMENT ABOVE THE PRE-DISTURBANCE GRADES.
- LCID MATERIALS WILL BE COVERED AT ALL TIMES WITH A MIN. 1-FT OF SOIL AND MATERIALS WILL BE MIN. 4-FT ABOVE GROUNDWATER.
- REFERENCE THE LCID SEQUENCE OF CONSTRUCTION ON SHEET LCID-3.

LANDFILL AREA	WASTE FOOTPRINT (AC)	EST. QUARTERLY CAPACITY (CY)	GROSS CAPACITY (CY)
NO. 1	0.99	1,000	5,900
NO. 2	4.60	1,000	75,871

NOTE: THE LANDFILL AREA IS LIMITED TO 9.40 ACRES PER THE 100' SETBACKS.



REFERENCE DRAWINGS

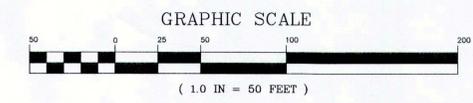
EVERETT'S LAND CLEARING AND INERT DEBRIS PIT

INSTITUTE TOWNSHIP
LENOIR COUNTY NC

FINAL PROPOSED (PHASE II) LCID PLAN

EVERETT'S CLEARING AND GRADING, INC.
 2402 FRED EVERETT ROAD
 KINSTON, NC 28504
 (252) 522-5260

REV. NO.	DATE	REVISIONS	BY
6.24.16		REVISIONS PER DSW REVIEW	JBS
SCALE		DEPARTMENT	
1" = 50'			
DRAWN BY		SHEET No.	
JBS		2 OF 3	
CHECKED BY		DRAWING No.	
JBS			
APPROVED		PROJECT No.	
JBS/LHE			
PROJECT No.		LCID-2	
EVERETT'S LCID			



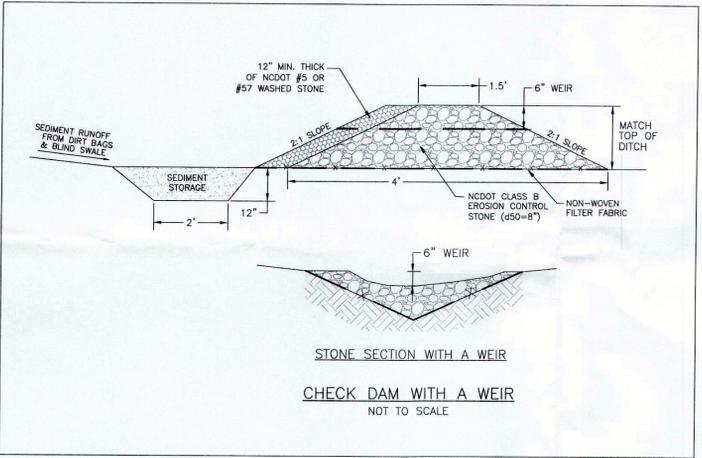
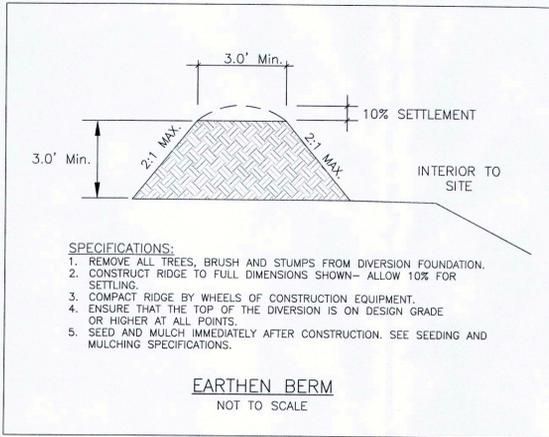
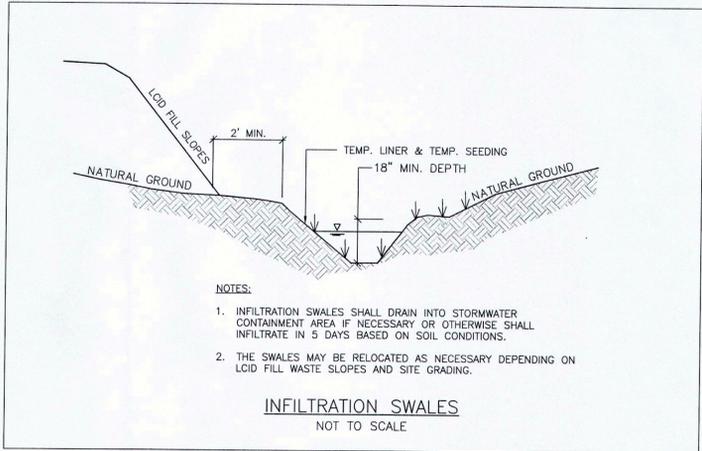
JOSEPH K. SMARSH
 LISA M. SMARSH
 DB 1232, PG 543
 PC 1, SL 112, PG 224
 4136 ALDRIDGE STORE RD.
 PARCEL 4400

DANGER!
 OPEN PIT
 NO TRESPASSING

EVERETT'S LCID
 HRS: M-SAT. 7AM-7PM
 STATE PERMIT #
 CONTACT: (252) 522-5260

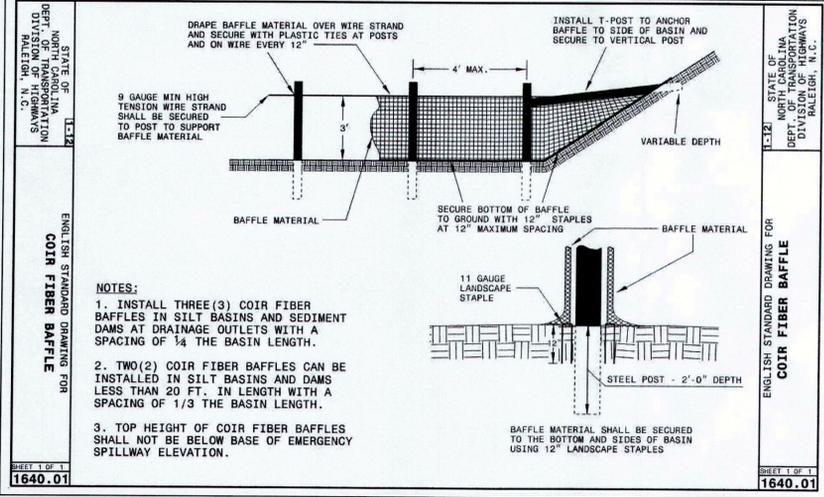
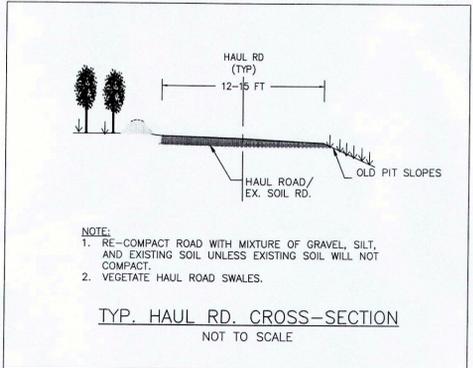
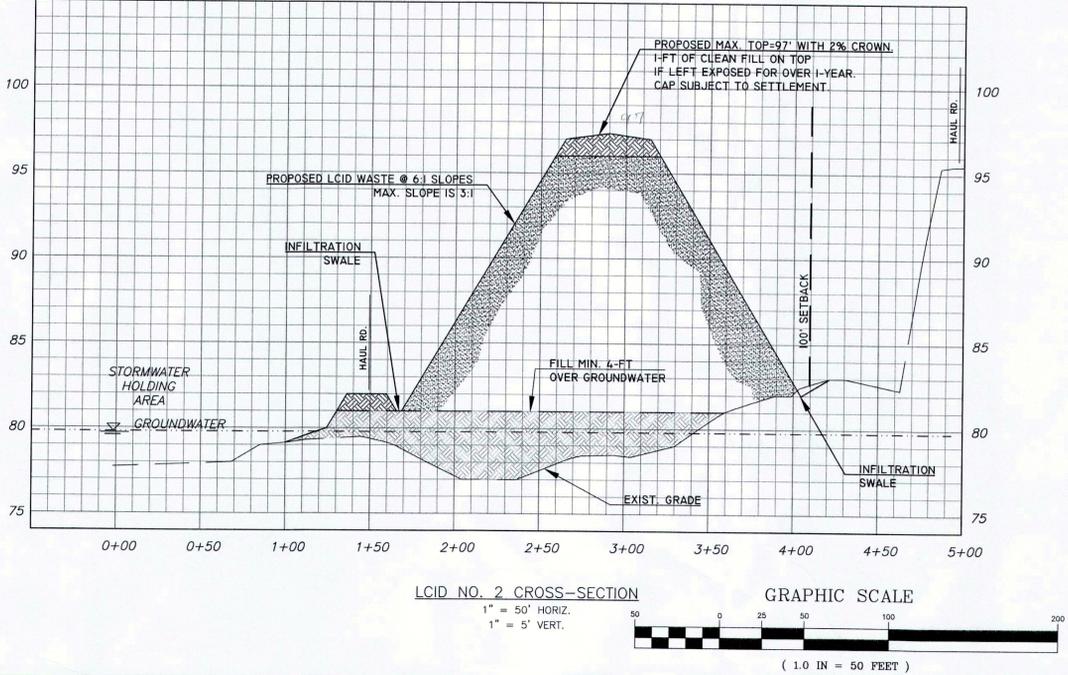
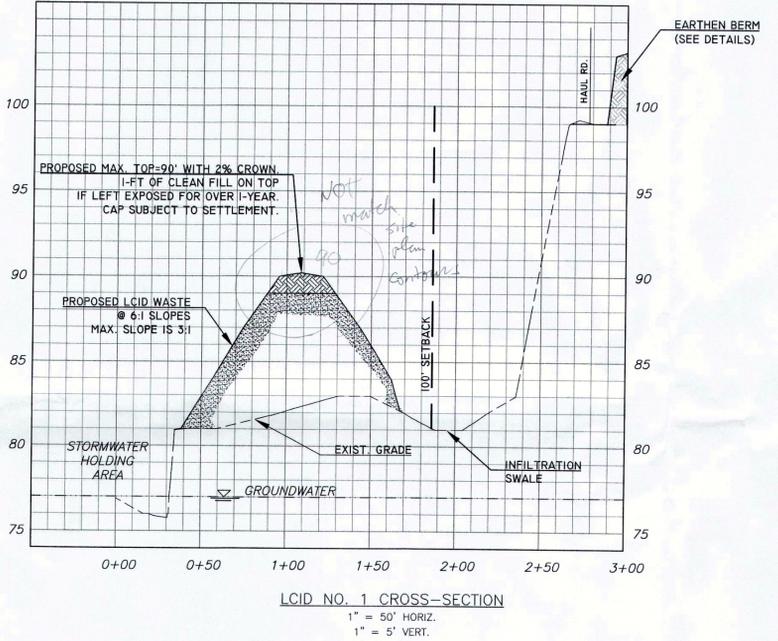
TEMPORARY SEEDING			
GRASS TYPE	LBS/ACRE	TIME OF SEEDING	FERTILIZER LIMESTONE
RYE GRAIN	50	OCT. - APR.	400 LBS/AC. 10-20-20
SWEET SUDAN GRASS	50	JUNE - AUGUST	400 LBS/AC. 10-20-20
GERMAN or BROWNTOP MILLET	50	JUNE - AUGUST	400 LBS/AC. 10-20-20
STRAW MULCH AS NEEDED	4,000		

PERMANENT SEEDING (RECLAMATION)			
GRASS TYPE	LBS/ACRE	TIME OF SEEDING	FERTILIZER LIMESTONE
BERMUDA, HULLED	10-20	MARCH - AUGUST	BY SOIL TEST
BERMUDA, UNHULLED	35	SEPT. - FEB.	(NO HIGH PH)
CENTIPEDE	10	MARCH - AUGUST	BY SOIL TEST
TALL FESCUE (COASTAL CULTIVAR RECOMMENDED)	50	MARCH - AUGUST	300 LB/AC 10-20-20 OR BY SOIL TEST
SLOPES >= 2:1 SERICEA LESPEDEZA	20	SEPTEMBER-APRIL	BY SOIL TEST
SWITCHGRASS	3	DECEMBER-APRIL	BY SOIL TEST



SEQUENCE OF LCID CONSTRUCTION & OPERATIONS

- Obtain NCDEQ erosion control and LCID waste permit and other state and local applicable permits as necessary.
- Install or repair LCID facility entrance, gate, signage as shown on the maps.
- Survey and delineate LCID 100' setback as the permit boundary and install 4x4 or PVC markers to delineate boundary.
- Construct perimeter earthen berms as shown on plans and vegetate in accordance with seeding and mulching specifications.
- Regrade haul roads to create separation between future LCID area and stormwater holding area. Vegetate in accordance with seeding and mulching specifications as necessary.
- Establish check dams and install pump to drain remaining water into stormwater holding area. No dewatering offsite.
- Commence backfilling with clean soil to establish 4-foot above groundwater separation.
- Commence LCID waste backfill in areas depicted as LCID No. 1 and No. 2 on maps.
- As necessary, vegetate per the temporary and permanent seeding specifications.



SEAL

 07/01/16

REFERENCE DRAWINGS

EVERETT'S LAND CLEARING AND INERT DEBRIS PIT

INSTITUTE TOWNSHIP
LENOIR COUNTY NC

DETAILS AND CROSS-SECTIONS

EVERETT'S CLEARING AND GRADING, INC.
 2402 FRED EVERETT ROAD
 KINSTON, NC 28504
 (252) 522-5260

REV. NO.	DATE	REVISIONS	BY
1	6.24.16	REVISIONS PER DSW REVIEW	JBS

SCALE: SEE PLAN DEPARTMENT: _____

DRAWN BY: JBS DATE STARTED: MAR. 2016 SHEET No. 3 OF 3

CHECKED: JBS DRAWING NO. _____

APPROVED: JBS/LHE PROJECT NO. _____

EVERETT'S LCID

LCID-3

OPERATIONS PLAN
LAND CLEARING AND INERT DEBRIS LANDFILL

EVERETT'S LCID PIT
SOLID WASTE PERMIT # _____
ALDRIDGE STORE RD
LENOIR COUNTY, NORTH CAROLINA

Date:

June 24, 2016

Lot Prepared for:

EVERETT'S CLEARING AND GRADING, INC.
2402 FRED EVERETT ROAD
KINSTON, NC 28504
(252) 522-5260

Prepared by:

J. BRANCH SMITH, PE
P.O. BOX 15044
WILMINGTON, NC 28408
(910) 264-1071

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>
	OP ADOPTION
1	OPERATIONS PLAN
	WASTE DISPOSAL PLAN
	EROSION AND SEDIMENTATION
	STORMWATER MANAGEMENT
	SPILL PREVENTION AND RESPONSE PLAN
	PREVENTATIVE MAINTENANCE AND HOUSEKEEPING
2	APPENDIX
	LCID MAPS
	LCID PERMIT #
	FIRE NOTIFICATION FORM

1 WASTE DISPOSAL PLAN

- (a) See LCID Maps for General Location.
- (b) The approved disposal materials shall be land clearing waste (stumps, green limbs, leaves, grass, soil, yard waste, etc.).
- (c) Per 15A NCAC 13B .0101(22), means a facility for the land disposal of land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash.
- (d) The disposal of any material other than those listed above shall be prohibited (15A NCAC 13B.0563). *(3)*
- (e) The estimated cubic yards of waste at this facility will be 4,000 cy/year. See LCID maps and permit. *Annual disposal rate 4000 cy/yr*
- (f) Waste from any county in NC will be permitted but most likely only Lenoir, Wayne, Craven, Pitt, Greene, Duplin, Onslow, and Jones counties. *Service area*
- (g) The equipment will be dump trucks and dozers mainly and excavators may be used to place fill dirt on occasion.
- (h) The facility is gated and locked daily.
- (i) The hours of operation are M-Sat. dusk till dawn but the facility is not active but a few times a week.
- (j) This facility is not open to the public but private use only.
- (k) Signs are located at the facility to describe the types of acceptable wastes, prohibited wastes, operating hours, permit number, and emergency contact numbers.
- (l) Haul roads will be maintained for all-weather access.
- (m) No temporary storage of unacceptable waste shall be stored onsite. Unacceptable wastes such as waste tires, appliances, construction and demolition waste, and household garage must not be disposed in the LCID Pit and hauled to the regulated landfill as listed below. *OK*
- (n) The closest regulated landfill that will take unacceptable waste for the LCID facility is located at:

Lenoir County Solid Waste Landfill
2949 Hodges Farm Road
LaGrange, NC 28551
Phone: (252) 566-4194

- (o) Open burning of solid waste is prohibited at the landfill property [Rule 15A NCAC 13B .0566(12)].
- (p) Fire Prevention and Response is covered by personnel training of Everett's Clearing and Grading, Inc. Fires on the LCID site shall be reported to the local fire department. Water may be used onsite to fight fires, but the local emergency responders will be contacted to fight any fires. All equipment must contain working fire extinguishers.
- (q) The closest fire department is located at:
- (r) Fires and explosions that occur at the landfill require verbal *notice to the DWM within 24 hours and written notification within 15 days. Written notification must include the suspected cause of fire or explosion, the response taken to manage the incident, and the action(s) to be taken to prevent the future occurrence of fire or explosion.*

The FIRE OCCURRENCE NOTIFICATION FORM can be downloaded from the DWM web site (link is provided below) and appended to the Operations Plan <http://ncdenr.s3.amazonaws.com/s3fs-public/Waste%20Management/DWM/SW/Forms/FireOccurrenceReport.pdf> See form included herein.
- (s) The permit files, inspections, and drawings will be maintained at the main office of Everett's Clearing and Grading located at 2402 Fred Everett Rd., Kinston, NC 28504.
- (t) The fill material will be excavated from onsite. A 1-ft soil cap will be installed on the LCID waste with a year of no activity on site.
- (u) Permanent markers that accurately identify the edge of the approved waste disposal boundary must be installed and properly maintained.
- (v) Pursuant to Rule 15A NCAC 13B .0566(4), adequate soil cover shall be applied over to cove the working face monthly or the active area reaches one (1) acre in size, whichever occurs first.

- (w) Closure of the facility will be in accordance, at a minimum, to Rule 15A NCAC 13B .0566(5) and notification made to the Solid Waste Section of NCDEQ. There is no projected use of the property at this time.

2 RESPONSIBLE PEOPLE FOR THE LCID FACILITY

Lynn Everett, VP and Landowner @ (252) 522-5260	Lynn@ecandg.com
Mary Ann Everett, President and Controller @ (252) 522-5260	Maryann@ecandg.com
Anthony Whaley, Project Manager @ (252) 522-5260	Anthony@ecandg.com

3 EROSION AND SEDIMENTATION CONTROL

- (a) The prevention of offsite sedimentation will be verified every week of operations.
- (b) The drainage area and surface water collected into the designated erosion control storage measures will be maintained to sufficient size and depth to accommodate the sediment-runoff.
- (c) The Erosion Control Permits (if permitted) will remain at the main office and Washington Regional DENR office.

4

STORMWATER MANAGEMENT PLAN

- (a) There is no State-permitted stormwater management permit necessary for this site. Stormwater Best Management Practices (BMP) for this facility are essentially the erosion control measures and details.
- (b) Receiving Waters on NC State 303(d) impaired waters list or located in a watershed established TMDL:

N/A - Falling Creek
 303d Impaired Waters

 303d Impaired Waters

- (c) The potential pollutants and total suspended solids that could be expected from these solid waste operations are dust and sediment-runoff, non-road and road grade diesel fuel, motor oil and lubricants, equipment lubricants and chemicals. Sediment-runoff results from exposed slopes, haul roads, stockpiles, wastepiles, and other land disturbing activities. Dust is typically generated from truck and excavator traffic along haul roads. Fertilizers and other chemicals would be used for land reclamation or seeding and could be washed from slopes and other disturbed areas. Equipment fuel and lubricants could spill or wash onto the ground during hauling, excavation, and dumping operations, and during maintenance or repair. There are multiple other chemicals and pollutants listed in the Materials Safety Data Sheet (MSDS) notebook in the construction field and main offices.

- (d) List of significant spills or leaks of pollutants that have occurred in the last 3 years and corrective action:

Significant Spills/Leaks	Date

Corrective Action	Date

Significant Spills/Leaks Date

Corrective Action Date

Significant Spills/Leaks Date

Corrective Action Date

5 SPILL PREVENTION AND RESPONSE PLAN (SPRP)

- (a) An Inventory of Potential Pollutant Sources for this LCID facility is found in the Materials Safety Data Sheet (MSDS) notebook in the main office. A MSDS sheet is found for all chemicals on site. Also, the same list is found in the Hazard Communication Program notebook in the office.

- (b) An oil Spill Prevention Control and Countermeasure Plan (SPCC) is not required by Federal regulations, specifically the Mining Health and Safety Administration (MHSA), although the spill prevention control and countermeasures are detailed for all chemicals and pollutants in the MSDS notebook in the office.

- (c) The Everett's Clearing and Grading, Inc. personnel responsible for implementing the SPRP are all employees and personnel trained to work in the LCID Pit operations on site.

- (d) Permanent Fuel storage is not planned for this facility and any temporary storage vessels shall be removed from the site daily.

- (e) Any and all containment structures for Bulk Storage of Liquid Materials per Section 313 of Title III of the Superfund Amendments & Reauthorization Act (SARA) are not located in a Special Flood Hazard Area Zone AE or any areas subject to flooding.

- (f) If any fuel or oil spill should occur, the usable fuel/oil within the containment structures shall be pumped into tanker trucks and transported to another storage facility. Oil absorbent material shall be available if it is necessary to use. The unusable fuel/oil and the contaminated soil in the area will be excavated and disposed of in accordance with State and/or Federal regulations.
- (g) All unloading of transport vehicles to fill fuel tanks will meet minimum requirements and regulations established by the U.S. Department of Transportation (US DOT) and MSHA. The tanks will be attended while filling to prevent overflow, and to note visible leaks from seams, gaskets, valves, etc. If spills are evident, the contaminated soil will be excavated and disposed to an approved landfill or contact the Division of Waste Management. If the spills continue, a paved unloading ramp equipped with an oil-water separator may need to be constructed.
- (h) If any other spills that involve equipment lubricants and chemicals occur, the spill shall be cleaned up, excavated and disposed to an approved landfill or contact the Division of Waste Management.
- (i) All personnel who are in any way connected with the pollutants listed above, or responsible for storm water drainage and spill cleanup will be made familiar with this plan, and a copy of this plan will be posted and readily available to all personnel at the main office and field offices.

6 PREVENTATIVE MAINTENANCE AND HOUSEKEEPING

- (a) Preventive Maintenance and Housekeeping related to health and safety of personnel and any environmental impacts is discussed and trained to all personnel working in the operations of Everett's LCID Pit. Mine personnel are expected to be responsible with the pollutants that they are involved with the most. An "Annual Refresher" is a training course by Everett's Clearing and Grading every year that includes preventative maintenance, housekeeping, and MSDS. In addition, job-specific training is required for all new employees, which also includes preventative maintenance, housekeeping, and MSDS.

**SOLID WASTE MANAGEMENT FACILITY
 FIRE OCCURRENCE NOTIFICATION
 NC DENR Division of Waste Management
 Solid Waste Section**



Notify the Section verbally within 24 hours and submit written notification within 15 days of the occurrence.
(If additional space is needed, use back of this form.)

NAME OF FACILITY: _____ PERMIT # _____

DATE AND TIME OF FIRE: _____ @ _____

HOW WAS THE FIRE REPORTED AND BY WHOM:

LIST ACTIONS TAKEN:

WHAT WAS THE CAUSE OF THE FIRE:

DESCRIBE AREA, TYPE, AND AMOUNT OF WASTE INVOLVED:

WHAT COULD HAVE BEEN DONE TO PREVENT THIS FIRE:

DESCRIBE PLAN OF ACTIONS TO PREVENT FUTURE INCIDENTS:

NAME: _____ TITLE: _____ DATE: _____

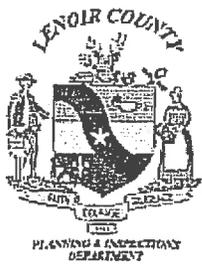
**THIS SECTION TO BE COMPLETED BY SOLID WASTE SECTION REGIONAL STAFF
 DATE RECEIVED _____**

List any factors not listed that might have contributed to the fire or that might prevent occurrence of future fires:

FOLLOW-UP REQUIRED:
 NO PHONE CALL SUBMITTAL MEETING RETURN VISIT BY: _____ (DATE)
 ACTIONS TAKEN OR REQUIRED:

PERMIT APPLICATION REVIEW FORM

Review Requested by:	
Date Requested:	<u>7/1/2016</u>
Facility Name and Permit ID	<u>Everett's Land Clearing and Inert Debris Pit</u>
Applicant (Owner) Name	<u>Lynn Everett</u>
Description of Permit Request [This is the action the applicant is requesting in accordance with NCGS 130A-295.8(b)]	<input checked="" type="checkbox"/> (1)a. New – New Facility <input type="checkbox"/> (1)b. New – Expand Facility Boundary <input type="checkbox"/> (1)c. New – Expand Waste Boundary <input type="checkbox"/> (1)d. New – Substantial Amendment <input type="checkbox"/> (2)a. Amendment – Next Phase of the Approved Facility Plan <input type="checkbox"/> (2)b. Amendment – Renewal/Review <input type="checkbox"/> 5YR <input type="checkbox"/> 10YR <input type="checkbox"/> (2)c. Amendment – Change in Ownership <input type="checkbox"/> (3)a. Modification – Change to Approved Plans (No CHR) <input type="checkbox"/> (3)b. Modification – Subsequent Permit to Operate (No CHR) <input type="checkbox"/> (3)c. Modification – Five-year Limited Review <input type="checkbox"/> (4) Major Permit Modification
Permitted Annual Tonnage	
Permit Fee	
Date Application Received	Click here to enter a date.
Contact Name, Title & Phone #	<u>Lynn Everett</u>
Email Address	<u>lynn@ecandg.com</u>
Company	<u>Everett's Clearing and Grading, Inc.</u>
911 Address	<u>Parcel 4596; XX Aldridge Store Rd</u>
Mailing Address	<u>2402 Fred Everett Rd</u>
City/State/Zip	<u>Kinston NC 28504</u>
Parent Company	=
Known Subsidiaries	=
Other known names business has operated under	<u>Westside Minerals is a Mining Co. of Lynn Everett</u>
Known Counties of Operation	<u>Lenoir, Wayne, Craven, Pitt, Greene, Duplin, Onslow, Jones, etc.</u>
Does the applicant have a past or current solid waste permit?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Facility Type: INDUS Permit #:
Did the permit applicant submit Financial Assurance cost estimates?	Yes <input type="checkbox"/> No <input type="checkbox"/> Not Needed <input checked="" type="checkbox"/>
Other notes	



**LENOIR COUNTY
PLANNING & INSPECTIONS DEPARTMENT**

PO BOX 3289
101 NORTH QUEEN STREET
KINSTON, NC 28502
PHONE: 252-559-2260
FAX: 252-559-2261



Zoning Compliance

Subject (Use): Land Clearing and Inert Debris Landfill

Reference: Everett Property – (N.C.P.I.N.: 3577-99-4506)
Aldridge Store Rd off, Lenoir County, NC

To Whom It May Concern:

The proposed use at the above referenced property is in compliance with the Lenoir County Zoning Ordinance based upon the use being listed in the Table of Permitted Uses. Please contact this office during normal business hours if there are any questions concerning this matter.

Regards,

A handwritten signature in cursive script that reads 'Wayland Humphrey'.

Wayland Humphrey

Lenoir County

GIS Coordinator / Planner / Zoning Officer
E911 Address Database Mgr.

Branch Smith

From: Edgerton, Thom <thom.edgerton@ncdenr.gov>
Sent: Friday, July 01, 2016 10:24 AM
To: Branch Smith
Cc: Dumpor, Samir; Novak, Gary
Subject: RE: Lenoir County LCID Permit

Hello,

Gary Novak may have Erosion and Sediment Control requirements from this office, and the Solid Waste Section should be contacted regarding their permit requirements. See the following link for additional information: <https://ncdenr.s3.amazonaws.com/s3fs-public/Environmental%20Assistance%20and%20Customer%20Service/Permit%20Handbook%20Documents/Land%20Clearing%20and%20Inert%20Debris%20Landfill%20Permit.pdf>

Land clearing debris permitting is not covered by the Industrial Stormwater permitting program and therefore I am not aware of any permitting requirements as proposed.

Please let me know if I can be of further assistance.

Sincerely,
Thom

Thom Edgerton
Environmental Engineer
Division of Energy, Mineral and Land Resources/Land Quality Section
Department of Environmental Quality

252 946 6481 office
thom.edgerton@ncdenr.gov

Washington Regional Office
943 Washington Square Mall
Washington, North Carolina 27889



Nothing Compares

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Dumpor, Samir
Sent: Friday, July 01, 2016 9:06 AM
To: Edgerton, Thom <thom.edgerton@ncdenr.gov>
Subject: FW: Lenoir County LCID Permit

Please respond to Branch.
Thanks

From: Branch Smith [<mailto:BSmith@paramounte-eng.com>]
Sent: Friday, July 01, 2016 8:51 AM
To: Dumpor, Samir <samir.dumpor@ncdenr.gov>
Subject: FW: Lenoir County LCID Permit

Samir : Can you provide this letter or email? I never heard back from Lyn.

Thanks
Branch

From: Branch Smith
Sent: Wednesday, June 08, 2016 8:29 AM
To: Hardison, Lyn <lyn.hardison@ncdenr.gov>
Subject: Lenoir County LCID Permit

Lyn:

Can you or someone from stormwater provide me a response on this property? Div. of Solid Waste is permitting this site and has asked for this:

(Section 3 Stormwater Management Plan) This Section proclaims that "there is no State-permitted stormwater management permit necessary for this site." Please provide a letter or written document issued by the NC Division of Water Resources to demonstrate the statement is true.

There will be no offsite dewatering or discharging from the pit.

Thanks

J. Branch Smith, PE
PARAMOUNTE ENGINEERING, INC.
122 Cinema Drive
Wilmington, NC 28403
m: 910.264.1071
v: 910.791.6707
f: 910.791.6760
www.paramounte-eng.com

Note: Paramounte Engineering is now located at 122 Cinema Drive, Wilmington, NC 28403.

Date: June 27, 2016

Brian A. Wade

Fire Chief

North Lenoir Fire & Rescue

2147 Fred Everett Rd, Kinston, NC 28504

Phone: (252) 520-9250

Dear to Whom It May Concern:

We hereby state that any fires associated with a Land Clearing and Inert Debris Facility (LCID) in Lenoir County will be serviced by our department, North Lenoir Fire & Rescue. We serve and protect in order to minimize loss of life, property, and the environment from fires, natural disasters, life threatening situations, and to assist other local and state emergency agencies.

We understand that this facility does not have chemicals or toxic elements associated with the waste disposal. Per 15A NCAC 13B .0101(22), an LCID means a facility for the land disposal of land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash.

Thanks,

Brian A. Wade

Chief

North Lenoir Fire & Rescue

OFFICE OF LENOIR COUNTY
TAX ADMINISTRATOR
by [Signature]
date 11-14-2011

INDEXED

Doc ID: 001658170004 Type: CRP
Recorded: 11/14/2011 at 03:26:59 PM
Fee Amt: \$26.00 Page 1 of 4
Revenue Tax: \$0.00
Lenoir County, NC
Margaret Seymour Register of Deeds
BK **1644** PG **203-206**

Prepared by: Joseph S. Bower
WHITE & ALLEN, P.A. ✓

NO TITLE EXAMINATION WAS PERFORMED BY DRAFTING ATTORNEYS

Property was not Grantor's primary residence

NORTH CAROLINA
LENOIR COUNTY

WARRANTY DEED ✓
FOR UNDIVIDED INTEREST

Tax Stamps: \$-0-

Parcel No.: 357700994506

THIS DEED, made this 16th day of February, 2010, by
WALTER T. WORTHINGTON and wife, MARILYN S. WORTHINGTON, whose
address is 931 Jason Drive, Niceville, FL 32578, Grantor; to
HENRY LEON EVERETT, JR. whose address is 2402 Fred Everett Rd.,
Kinston, NC 28504, Grantee; ^{was} _{owner}

W I T N E S S E T H:

That Grantor, for a valuable consideration paid by
Grantee, the receipt of which is hereby acknowledged, have sold,
and by these presents, do grant, bargain, sell and convey unto
Grantee, his heirs and assigns, an undivided One-Half (1/2)
interest in and to that parcel of land lying and being in
Institute Township, Lenoir County, North Carolina, and more
particularly described on Exhibit "A" attached hereto and
incorporated herein by reference.

TO HAVE AND TO HOLD an undivided One-Half (1/2) interest in and to the aforesaid parcel of land and all privileges and appurtenances thereto belonging to the Grantee, their heirs and assigns, in fee simple.

And the Grantor covenants with the Grantees that Grantor is seized of said premises in fee, has the right to convey the same in fee simple, that the same are free from all encumbrances, and that Grantor will warrant and defend the title against the claims of all persons whomsoever, subject to valid and enforceable easements, rights-of-way and restrictions of record, if any.

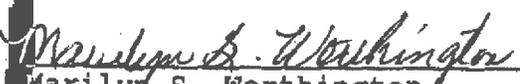
The designation Grantor and Grantees as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

IN WITNESS WHEREOF, the Grantor has caused this instrument to be signed in the manner prescribed by law, the day and year first above written.



Walter T. Worthington

(SEAL)



Marilyn S. Worthington

(SEAL)

STATE OF FLORIDA
COUNTY OF OKALOOSA

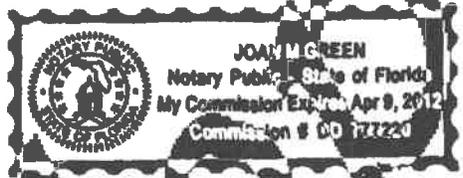
Personally appeared before me this day WALTER T. WORTHINGTON and wife, MARILYN S. WORTHINGTON being personally known to me or identified by satisfactory evidence and acknowledged to me their due voluntary execution of the foregoing instrument for the terms and purposes therein set forth.

Witness my hand and notarial seal, this 17 day of MARCH, 2010.

Joan M. Green
Notary Public

My commission expires: 04-09-2012

JSB/sht #2
084663-00003



COPY

Exhibit "A"

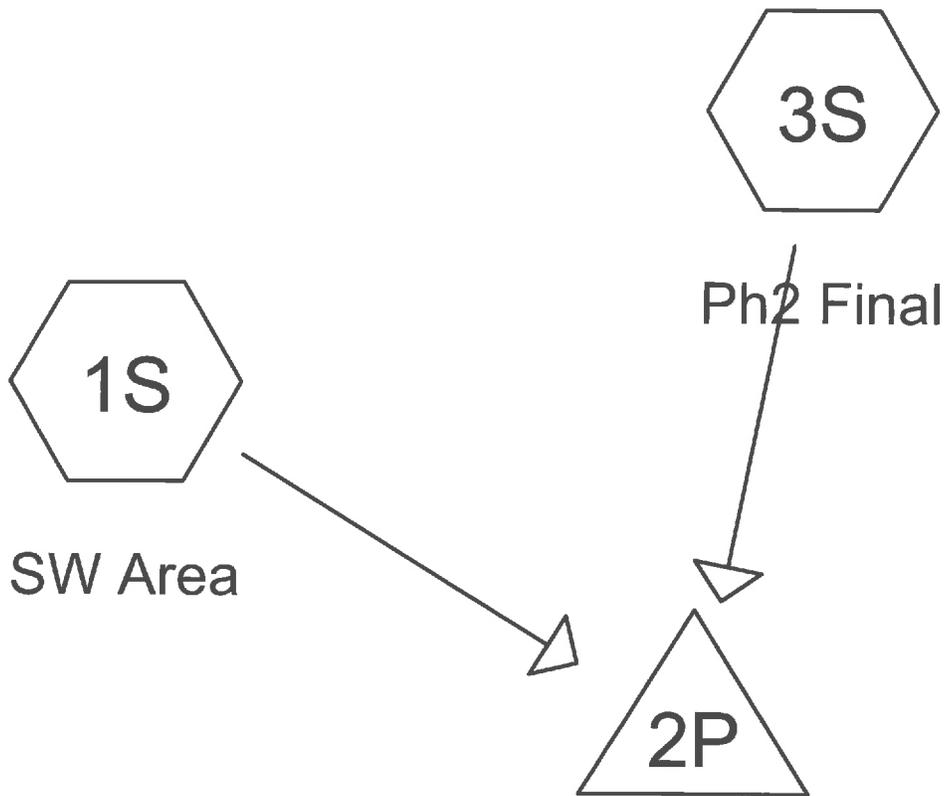
ATTACHMENT TO WARRANTY DEED FOR UNDIVIDED INTEREST by WALTER T. WORTHINGTON and MARILYN S. WORTHINGTON, Trustees under the WALTER T. WORTHINGTON LIVING TRUST, dated October 8, 1996, and any amendments thereto, whose address is 931 Jason Drive, Niceville, FL 32578, Grantor; to HENRY LEON EVERETT, JR. whose address is 2402 Fred Everett Rd., Kinston, NC 28504, Grantee;

BEING Tract Five (5), containing 35.63 acres, more or less, which is shown on that map entitled "Survey for Otis S. Bryant," prepared by Averette & King Engineering Co., P.A., dated December 28, 1976, and recorded in Map Book 19, Page 35, Lenoir County Registry, and reference is hereby made to said recorded map for a more accurate description; and also being one of the tracts described in that deed recorded in Book 700, Page 311, Lenoir County Registry. And also being the same property described in Book 987, Page 1, Lenoir County Registry.

LESS AND EXCEPT THE FOLLOWING:

BEING all of Tract 5A, containing 17.85 Acres, more or less, as depicted on that certain map entitled "SURVEY FOR WALTER T. WORTHINGTON", prepared by William C. Butler, Jr., L-4359, dated May 11, 2009, and recorded in Plat Cabinet 12, Page 27, Lenoir County Registry. Said map is incorporated herein by reference for a more particular description of said tract.

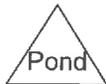
JSB/sht #2
084663-00003



(new Pond)



James Branch Smith
6-24-16



Summary for Subcatchment 1S: SW Area

Runoff = 15.33 cfs @ 12.18 hrs, Volume= 1.285 af, Depth> 1.91"

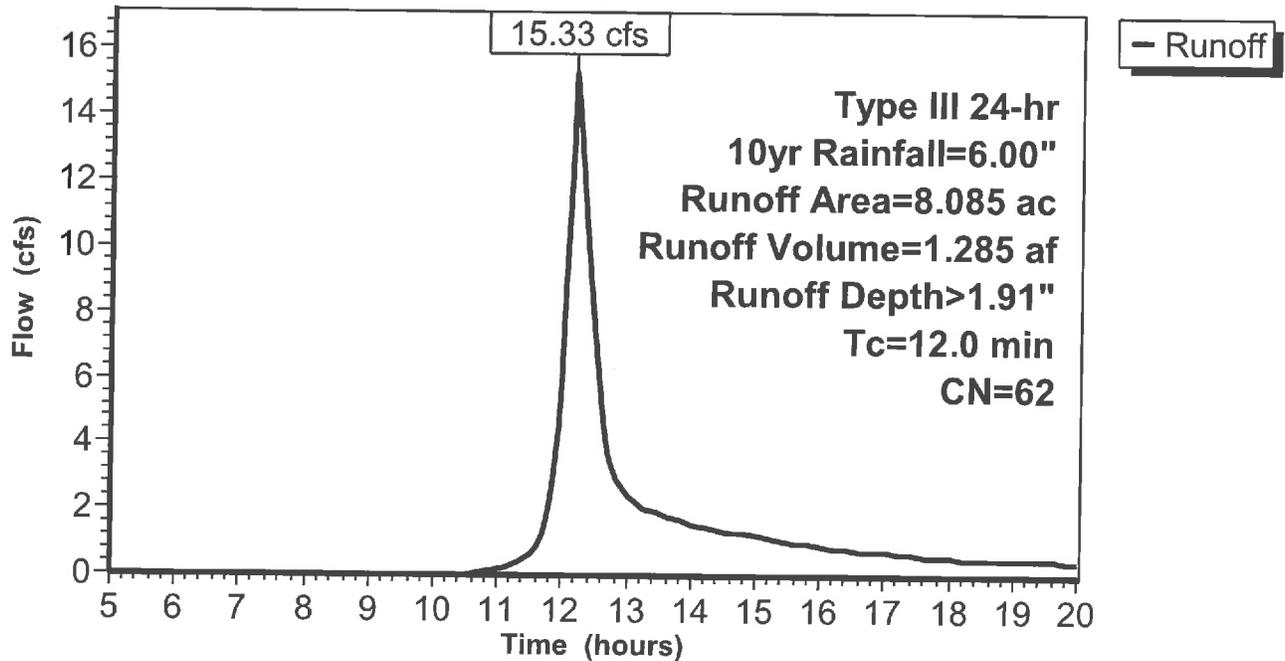
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10yr Rainfall=6.00"

Area (ac)	CN	Description
6.654	61	>75% Grass cover, Good, HSG B
1.431	69	50-75% Grass cover, Fair, HSG B
8.085	62	Weighted Average
8.085		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0					Direct Entry,

Subcatchment 1S: SW Area

Hydrograph



Summary for Subcatchment 3S: Ph2 Final

Runoff = 24.18 cfs @ 12.14 hrs, Volume= 1.866 af, Depth> 3.44"

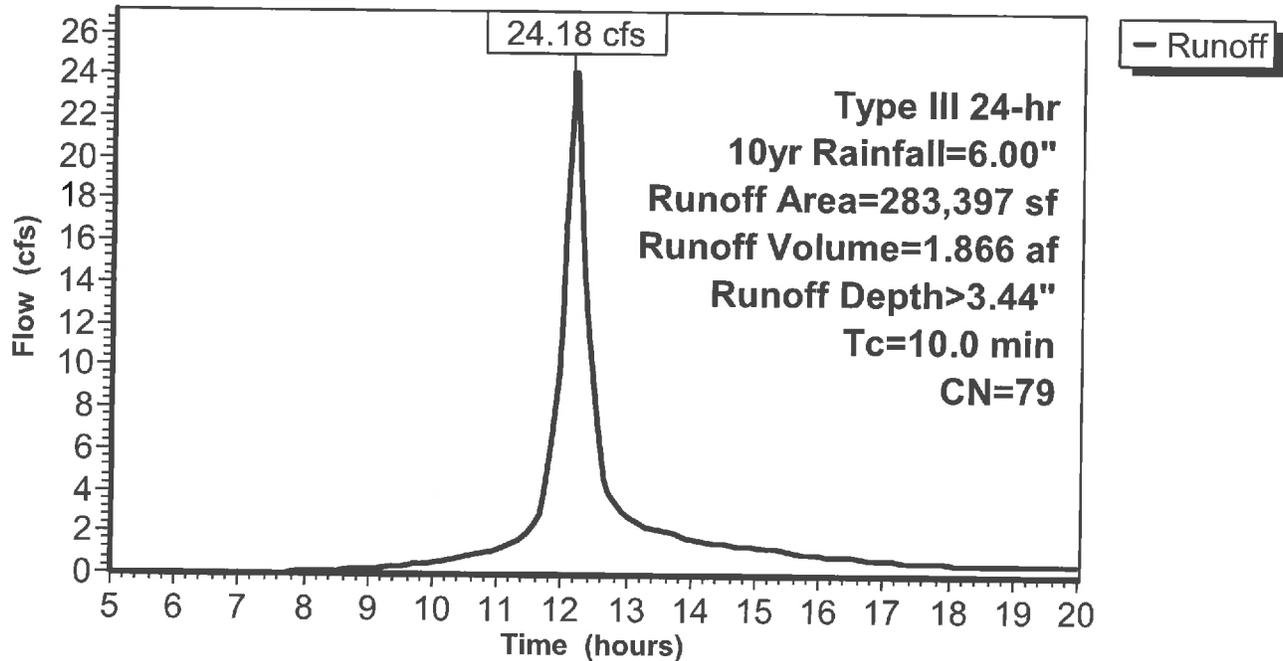
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10yr Rainfall=6.00"

Area (sf)	CN	Description
283,397	79	<50% Grass cover, Poor, HSG B
283,397		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3S: Ph2 Final

Hydrograph



Summary for Pond 2P: (new Pond)

Inflow Area = 14.591 ac, 0.00% Impervious, Inflow Depth > 3.82" for 10yr event
 Inflow = 40.42 cfs @ 12.16 hrs, Volume= 4.643 af, Incl. 1.20 cfs Base Flow
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

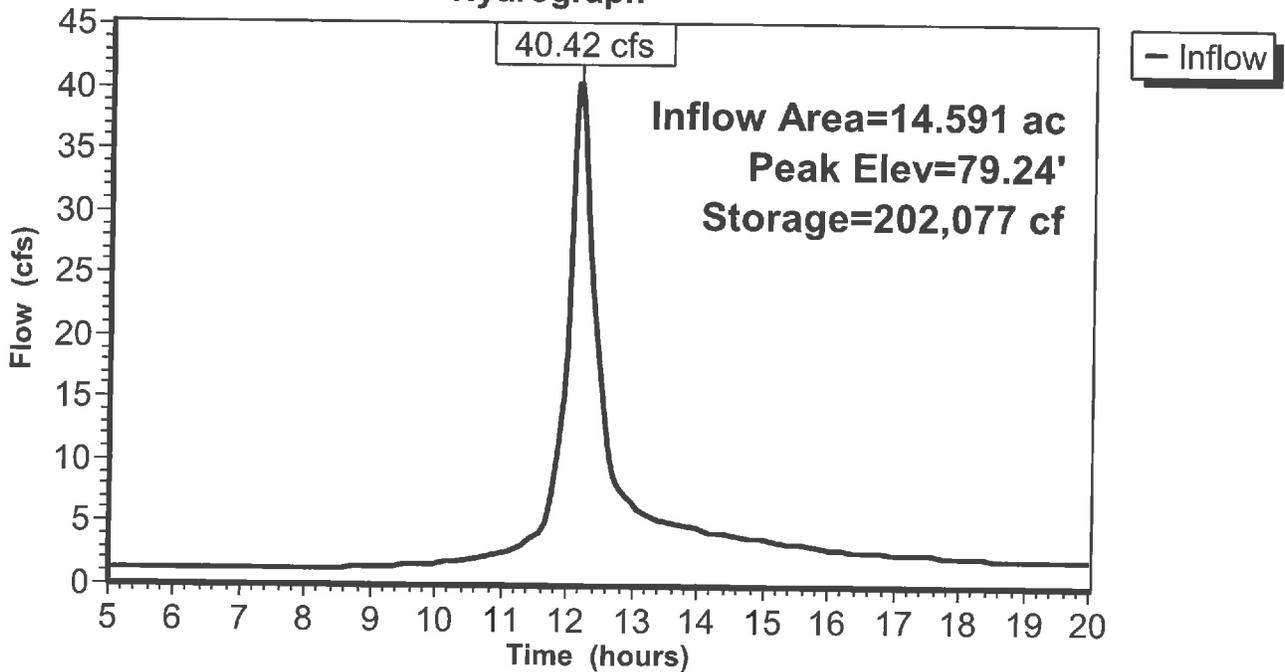
Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 79.24' @ 20.00 hrs Surf.Area= 95,952 sf Storage= 202,077 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume #1	Invert	Avail.Storage	Storage Description
	76.00'	467,301 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
76.00	5,167	0	0
77.00	42,671	23,919	23,919
78.00	86,214	64,443	88,362
79.00	95,952	91,083	179,445
80.00	95,952	95,952	275,397
81.00	95,952	95,952	371,349
82.00	95,952	95,952	467,301

Pond 2P: (new Pond)

Hydrograph



Summary for Subcatchment 1S: SW Area

Runoff = 39.91 cfs @ 12.17 hrs, Volume= 3.230 af, Depth> 4.79"

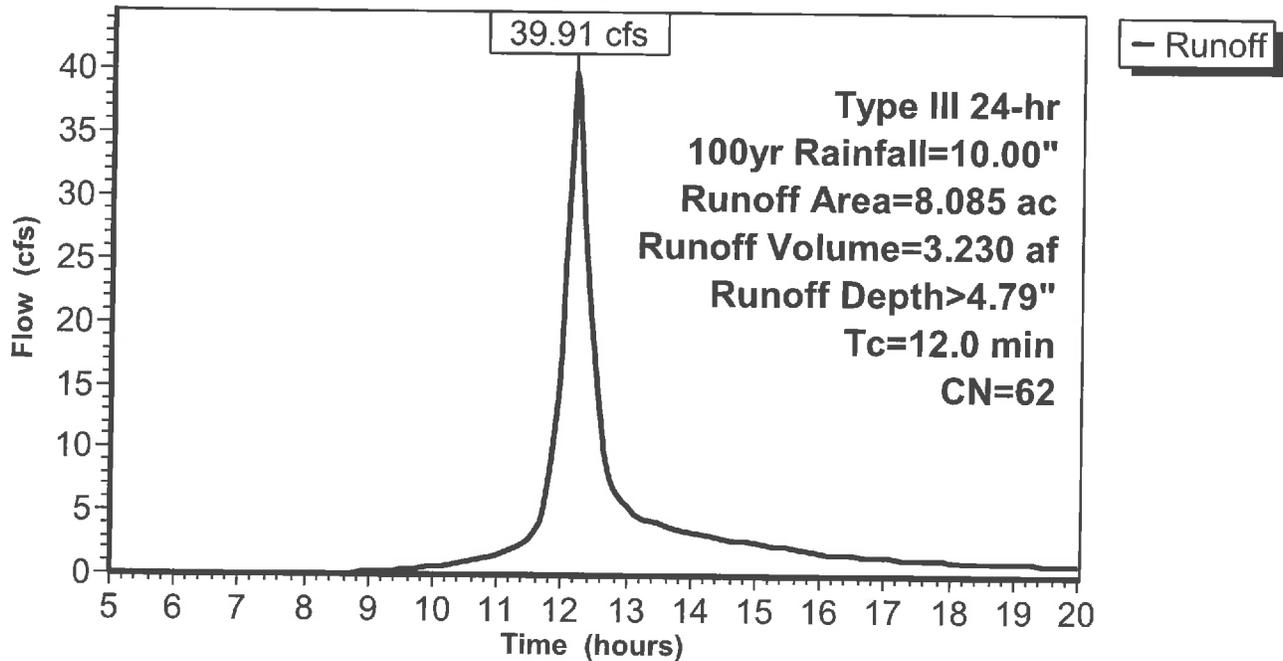
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100yr Rainfall=10.00"

Area (ac)	CN	Description
6.654	61	>75% Grass cover, Good, HSG B
1.431	69	50-75% Grass cover, Fair, HSG B
8.085	62	Weighted Average
8.085		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0					Direct Entry,

Subcatchment 1S: SW Area

Hydrograph



Summary for Subcatchment 3S: Ph2 Final

Runoff = 47.53 cfs @ 12.14 hrs, Volume= 3.778 af, Depth> 6.97"

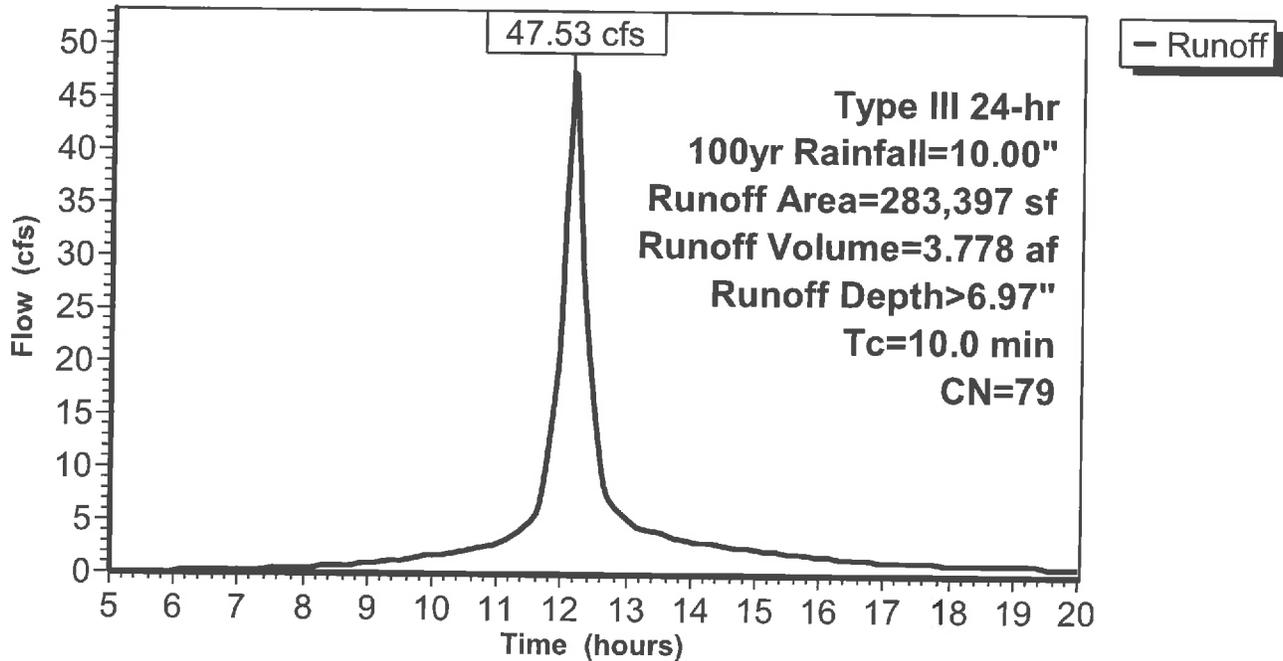
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100yr Rainfall=10.00"

Area (sf)	CN	Description
283,397	79	<50% Grass cover, Poor, HSG B
283,397		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3S: Ph2 Final

Hydrograph



Summary for Pond 2P: (new Pond)

Inflow Area = 14.591 ac, 0.00% Impervious, Inflow Depth > 6.99" for 100yr event
 Inflow = 87.97 cfs @ 12.15 hrs, Volume= 8.500 af, Incl. 1.20 cfs Base Flow
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 80.99' @ 20.00 hrs Surf.Area= 95,952 sf Storage= 369,992 cf

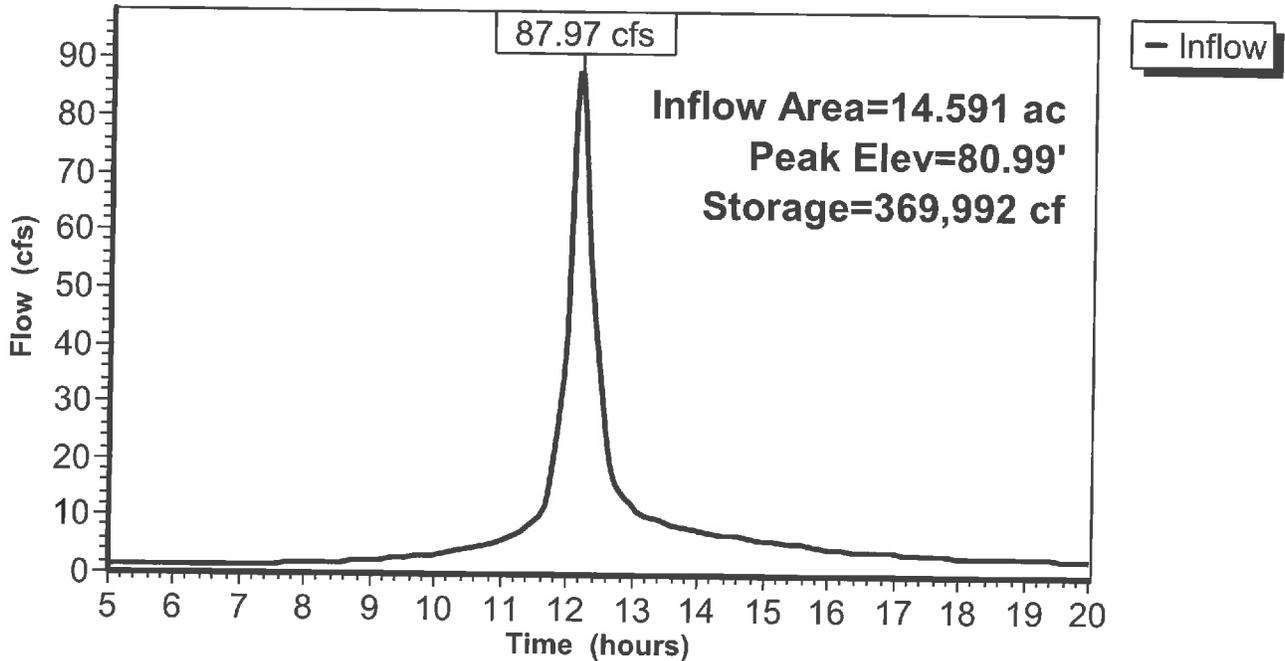
Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume #1	Invert	Avail.Storage	Storage Description
	76.00'	467,301 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
76.00	5,167	0	0
77.00	42,671	23,919	23,919
78.00	86,214	64,443	88,362
79.00	95,952	91,083	179,445
80.00	95,952	95,952	275,397
81.00	95,952	95,952	371,349
82.00	95,952	95,952	467,301

Pond 2P: (new Pond)

Hydrograph



Branch Smith

From: Tony Gordon <tonyg@nlwatercorp.com>
Sent: Wednesday, June 15, 2016 12:41 PM
To: Branch Smith
Subject: Well 8 well screen settings
Attachments: 20160615121322882.pdf

Mr. Smith

Attached is the well screen setting for Well 8 that joins Mr. Everett's pit and below is the monthly pump testing static and pumping levels.

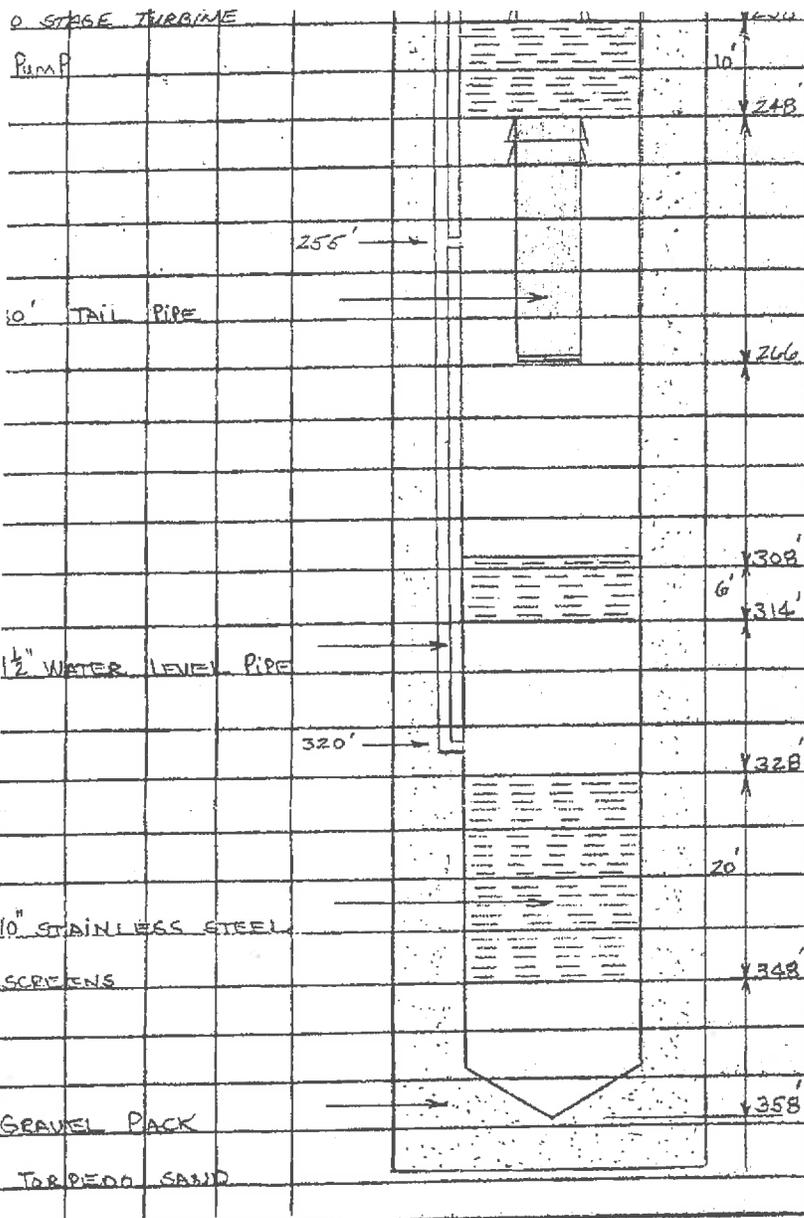
2016 PUMP TEST

Well		January	February	March	April	May	June
8	Date	1/19	2/2	3/3	4/8	5/18	6/2
	Time	10:20 AM	9:35 AM	10:10 AM	9:45 AM	9:35 AM	1:15 PM
	Static	92.93	91.89	91.77	91.21	91.32	91.86
	Pumping	130.23	131.18	130.36	129.88	130.88	132.51

27.3 39.29 38.59 22.67 29.56 40.65

Thanks

Tony Gordon
North Lenoir Water Corporation
904 N Queen St
P.O. Box 1579
Kinston, NC 28503
cell (252)560-1491
<http://www.nlwater.com>



Preliminary Test	
Date Tested	19 Static Level
Production	GPM Pumping Level
24 hr. Permanent Test	
Date Tested	MAY 14 - 15 19 84 Static Level
Production	480 GPM Active St. Level
Draw Down	66' 3" Pumping Level
Remarks:	
PUMP DATA:	
Shop No.	VALLEY BXIF Type Lumber
Type Head	80160 Size Suction
Depth Setting	222 (BP to MB)
Size Column	6" Length Suction
Type Bowl	8 X L E Length Air Line
No. Stages	20 Discharge
Cap'y. and Head	490 GPM Pressure 370 TDH
MOTOR DATA:	
Horse Power	60 Voltage 46
RPM	1800 Phase 3
Type	RU Cycles 60
Make	U.S. MOTOR Frame No.

DIAGRAM AND DATA PREPARED BY KENNETH BRYAN 8-21-84